

CLAIMS

1. A connection structure of a refrigerant line of an air conditioner (1) divided into an indoor unit (2) and an outdoor unit (3) that serves to transmit
5 electric signals of the indoor unit (2) and the outdoor unit (3) via a connection line (4, 5) that serves to connect a refrigerant line of the indoor unit (2) and a refrigerant line of the outdoor unit (3) and circulate refrigerant, the connection structure comprising:

a first flange (21b, 121b) arranged on an end portion of the connection
10 line (4, 5) side of the refrigerant line (2a, 2b) of the indoor unit (2) and an end portion of the connection line (4, 5) side of the refrigerant line (3a, 3b) of the outdoor unit (3);

a second flange (22b, 122b) arranged on the connection lines (4, 5) to correspond to the first flange (21b, 121b);

15 a first insulation material (25, 125) composed of an electric insulation material that is interposed between the first flange (21b, 121b) and the second flange (22b, 122b);

a plurality of bolts (26, 126) that serve to join the first flange (21b, 121b) and the second flange (22b, 122b); and

20 a second insulation material (28, 29, 128) that is composed of an electric insulation material that lies between the plurality of bolts (26, 126) and at least one of the first flange (21b, 121b) and the second flange (22b, 122b).

2. The connection structure of a refrigerant line of an air conditioner set
25 forth in claim 1, wherein

an end portion (26a, 126a) of the plurality of bolts is covered by a coating material that is composed of an electric insulation material.

3. The connection structure of a refrigerant line of an air conditioner set

forth in claims 1 or 2, wherein

the first flange (21b, 121b), the second flange (22b, 122b), and the plurality of bolts (26, 126) are covered with a thermal insulation material (30, 130).